





```

Db 733 aagatctcaagaagaatcatcgtgccaagaagagtgcccaacacaccag 792
QY 599 agcagagattaaagaacactagacatccctttaaactccttgaataatccctcag 658
Db 793 aaccgctctcagacactcagcacccttccctccacagccttgaaactcttcacg 852
QY 659 acaaaagaccgttctgttctgtgatggaaatgtaattatgtgagggcgagcgttttccat 718
Db 853 accacagaccgctctgtctgttcatggaatgacgcacaagggcgagcgttcttcac 912
QY 719 ttgtcgagagagcggtgttctcttgagagccagcacagttctcatgtgtcagaattgtc 778
Db 913 ctgtcccgagaaagtggtctctccgaggaacggcccgctctcatatgctgtgatgtg 972
QY 779 tctgtccttgactatctacatcccgaaaga----tctgtaccgtgactcgaagtggag 835
Db 973 tcagccctgactactcgtcctcggagaagaagtggtgtacccggagccccaagctggag 1032
QY 836 aactaattctgagcaaaagtgcacataaaattacagattttgagactttgcaagaa 895
Db 1033 aacctatgctgagcaagagcgccacatlaagatccagacttcggtcgtgcaaggag 1092
QY 896 gggatcacagatgcacacacacacagacatctgtgcacctccagacatactgcgacca 955
Db 1093 gggatcaagagcggtgcacacacacagacacttttgcgcacctgtgatactgcgcccc 1152
QY 956 gagggtttagaagataatgactatgcccagacagtagactgtgtgggacctagggtgtc 1015
Db 1153 gagggtctgagagacatgactagcgcgcgtgactgtgagtggtgtgggacctagggtc 1212
QY 1016 atctatgaattgattgtgtggaggttactcttcaacacagacagcagtgagaaactttc 1075
Db 1213 atgtacagagatgtgtggtgtcgtcgtcccttcaacacagacagcagtgagaaactttc 1272
QY 1076 gaattatlaattgaaagacatlaattcctcgaacacactcctcctcagaatgcaaatca 1135
Db 1273 gaggctacctcatgtgagagatccgtctcccgacagcgtttgtcccgagccaagtcc 1332
QY 1136 ttgcttcaagggtctctgtataaagatccaataaagccttctgtgaggaaccaagtatc 1195
Db 1333 ttgcttcaagggtctgtcaaaagagacccaagcagagcgtctgcyggggtctccgagac 1392
QY 1196 gcaaaagaattttagagacagatttctctctggaagtaacatgcaagaatgtatgatc 1255
Db 1393 gccaaaggagatctgcagcctctcttccggtatctgtgtgagcagcgtgtatgag 1452
QY 1256 aaaaagctgttacctctttaaactcaagtaaacatctgagacagatactagatattt 1315
Db 1453 aagaagctcagcccaaccttcaagcccgagtcacgtcggagactgacacaggtattt 1512
QY 1316 gatgaagaattttagcagctcagactatataacacacacactgaaataatgtatgagat 1375
Db 1513 gatgaagagtttcaagcgcacagatcatcatcacacacactgaccaa-----gatgac 1566
QY 1376 ggtatgactgcatagcaatgagagcgccgcaattccctcaatttctactctgca 1435
Db 1567 agcatgtgagtgctgtgagacagagcgacgcccccaacttccccaagtctctactggcc 1626
QY 1436 agtgcagcagaataagtc 1453
Db 1627 agcagacagcgctgagcg 1644

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RESULT 3  
US-09-256-465-1  
Sequence 1, Application US/09256465

Patent No. 6043090  
GENERAL INFORMATION:  
APPLICANT: Brett P. Monia  
APPLICANT: Lex M. Cowser  
TITLE OF INVENTION: ANTISENSE MODULATION OF AKT-2 EXPRESSION  
FILE REFERENCE: RTS-0035  
CURRENT APPLICATION NUMBER: US/09/256,465

CURRENT FILING DATE: 1999-02-23  
NUMBER OF SEQ ID NOS: 47  
SEQ ID NO 1  
LENGTH: 1599  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (88)..(1533)  
US-09-256-465-1

Query Match 42.5%; Score 658.2; DB 3; Length 1599;  
Best Local Similarity 67.7%; Pred. NO. 4e-180;  
Matches 988; Conservative 0; Mismatches 453; Indels 18; Gaps 4;

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QY 5 gtacatcagcgatgttaccatgttgaagaagcttgggttccagaagaggagaaat 64
Db 82 gccacatgatatgagtgctgtcatcaagaagcgtgctccacaagcgtgtgataac 141
QY 65 ataaaaacttgagccaagatacttcttltgagacagatgtgtcatatcagatat 124
Db 142 atcaagacctgagggccaagcagcttcttcttctgaagagcagcgcttctcatgtgtac 201
QY 125 aagaagaacctcaagatgtgtattactatcccc---tcaaacactttcagtgga 181
Db 202 aagaagaagcgcccgagccctgtacacagcttacccttcaaacacttctcgtagca 261
QY 182 aaatgcagttaaatgaanaacagacacacacacacacatlaataatcagatgtc 241
Db 262 gaatgcagctgtatgaagaagcagcagcgccgacacacacacacttgcatacgtgtcgt 321
QY 242 caatgtactctgtatagagaagaacatcattcatgtatgatactccagaggaaggaa 301
Db 322 cagtgcagccacagtcacatcgaagagaccttccacgttgatctccaagcagagaggag 381
QY 302 tggacagaagctatcagcgtctgtgacagacagact-----gcagaggcagaagaggag 355
Db 382 tggatgcgggcacatccagatggtctgcgcacacactccaagcagcgcccaagcgagac 441
QY 356 agaatgattgttagtccaacttcaacaaatlgataatagagaagagaagatgtgcc 415
Db 442 cccatgtactacaagtgctgtctcccccagtgacctcccaagctgagggagatgagtg 501
QY 416 tctcaacccat---cataaagaagaacatgatatgtatttggacttttgaactacta 472
Db 502 gcggtcagcaagcgagcggtcaagtgaccatgtatgatttctgcacttccaactcttc 561
QY 473 gttaaaggaccttltggaaagttatttgtgtcgagagaagcgaaatggaatactat 532
Db 562 ggcagaaggaaccttggcaaaagtcacatccgtgtcgaggagaagccacttgcgtactac 621
QY 533 gctatgaagattctbnaaagaagaagtcattatltgcaagagatgagtgccacacactta 592
Db 622 gccatgagatcttcctgcgaagaagatcatcatcttgcgaagatgagtcgcacacagtc 681
QY 593 actgaagcagagatataaagaacactagacatccctttaaataccttgaatatctc 652
Db 682 accgagagcggtgtccctcgaacacacacagacccgttcttccatgtcgttaagtaagtc 741
QY 653 ttccagaacaaagacggttgggttggatgaatgataatgttgaaggggagcgtttt 712
Db 742 ttccagaacccagacggtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgtgt 801
QY 713 ttccattgttcgaagagcggtgttctctgagagccagacacatcttcatatgttgcagaa 772
Db 802 ttccactgttccgagcggtgttcttccagaagagcggtgttattatgtgtgcagag 861
QY 773 atgtctctcgttgcactatcatcattccgaaagatgtgtacgtgtatcgaatgtg 832
Db 862 atgtctcgtctgtgtactgtactgtcagcgtggagcgtgtatatacgcgcaatcaagctg 921
QY 833 gagatctaatgtcgtgacaagaagtgcgcaacataaaattgaagatttttgacttgcaaa 892

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Db      922  gaaacccctcgtcgtgcaagaatgctgacatcaagaatcacttgacttgccctctgcaaa 981
Qy      893  gaaggagatcacagatgagccaccatgaacatctctgtgcaactccagaatatctggca 952
Db      982  gaaggatcagctgacgggaccacatgaacactctgtgtgggaccccgagtaactctggc 1041
Qy      953  ccagagtggttaagaataatgactatgcccagctgaactggtgtgggctcctagaggtc 1012
Db      1042  ccgaggtgtcgtgaggaacaatgactatgcccggccgtgagctgtgtgggctcgtgtgtg 1101
Qy      1013  gtcatactgaaatgactgtgtgtggaggttaacctttctacacacaggaacccctgagaact 1072
Db      1102  gtcatactgaaatgactgtgtgtggaggttaacctttctacacacaggaaccccgagctc 1161
Qy      1073  ttggaattaatatgaatgaagaacatattctcctcgaaactctcttcagatgcaaaa 1132
Db      1162  ttcgaactcactcctcctgaaagagatccgcttcctcgacagctcagcccgagggcgaag 1221
Qy      1133  tcaatgcttcagagctccttgataaaggaatccaaataaagccttggtgtgagagcagat 1192
Db      1222  tcccgctgtcgtgggctgtgtaagaagagcccaagagagctgtgtgtgtgtgtgtgtgtgt 1281
Qy      1193  gatgcacaaagaatattatgagacacagttctctctgtgagagtaaacctggaagatgtat 1252
Db      1282  gatgcacaaagaatattatgagacacagttctctctgtgagagtaaacctggaagatgtat 1341
Qy      1253  gataaagaagctgtacactccttttaacctcaagtaacatctggaagacagatatgat 1312
Db      1342  cagaagaagctcctcctccacactcctcctcagctcagctcagctcagctcagctcagctc 1401
Qy      1313  ttgttaagaagaattacagactacactatatacaaacacacccctgaaataatgatgtg 1372
Db      1402  ttgcgtatgaaattacacgcccagccatcaatacaacaccccccgcagctcgtat----- 1455
Qy      1373  gatgtatgagactgcatgagacaatgagagcgccgcatcttcctcaatttctcactct 1432
Db      1456  gacagcctggtctactgtgagctgagcagcgaccactctcccaagtctccactg 1515
Qy      1433  gcaagtgcagagaaatga 1451
Db      1516  gccagcatccgcagagtgag 1534

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RESULT 4
US-09-474-922A-1
; Sequence 1, Application US/09474922A
; Patent No. 6187586
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowert
; APPLICANT: Richard A. Roth
; TITLE OF INVENTION: ANTISENSE MODULATION OF Akt-3 EXPRESSION
; FILE REFERENCE: RTS-0036
; CURRENT APPLICATION NUMBER: US/09/474, 922A
; CURRENT FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 1
; LENGTH: 403
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-474-922A-1

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Query Match      26.1%; Score 403; DB 4; Length 403;
Best Local Similarity 100.0%; Pred. No. 7.1e-107;
Matches 403; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      29  gtgaagaaggttggttcagaagaagggaataataaagaactggagccaaagtac 88
Db      1  gtgaagaaggttggttcagaagaagggaataataaagaactggagccaaagtac 60
Qy      89  ttccctttgaagaagatggtcattcatagatatagaagaagaacctcaagatgtgat 148

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Db      61  ttccctttgaagaagatggtcattcatagatatagaagaagaacctcaagatgtgat 120
Qy      149  ttaactatccctcaacacactttcagtgagcaaaatggcaagtttaagaacaagacga 208
Db      121  ttaactatccctcaacacactttcagtgagcaaaatggcaagtttaagaacaagacga 180
Qy      209  ccaagccaacaacattataatcagaatgctcctcagtgagactctgttataagagaca 268
Db      181  ccaagccaacaacattataatcagaatgctcctcagtgagactctgttataagagaca 240
Qy      269  ttcatgttaatctcctcagaggaaggaatggaaatggacagaagctatccagctgtgca 328
Db      241  ttcatgttaatctcctcagaggaaggaatggaaatggaaatggacagaagctatccagctgtgca 300
Qy      329  gacagactgcagagggcaagaagagagagatgaattgtgtatcccaactcaacatgtat 388
Db      301  gacagactgcagagggcaagaagagagagatgaattgtgtatcccaactcaacatgtat 360
Qy      389  aatataagagaggaagatgagatgctcctacacccatcata 431
Db      361  aatataagagaggaagatgagatgctcctacacccatcata 403

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RESULT 5
US-09-474-922A-2
; Sequence 2, Application US/09474922A
; Patent No. 6187586
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monia
; APPLICANT: Lex M. Cowert
; APPLICANT: Richard A. Roth
; TITLE OF INVENTION: ANTISENSE MODULATION OF Akt-3 EXPRESSION
; FILE REFERENCE: RTS-0036
; CURRENT APPLICATION NUMBER: US/09/474, 922A
; CURRENT FILING DATE: 1999-12-29
; NUMBER OF SEQ ID NOS: 89
; SEQ ID NO 2
; LENGTH: 387
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-474-922A-2

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Query Match      24.8%; Score 383.8; DB 4; Length 387;
Best Local Similarity 99.5%; Pred. No. 2.4e-101;
Matches 385; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

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Qy      972  atgactatgcccagagcagtaagactgtgtgggcttaggggtgtgtcatgtatgaatgatgt 1031
Db      1  atgactatgcccagagcagtaagactgtgtgggcttaggggtgtgtcatgtatgaatgatgt 60
Qy      1032  gtggaggttaccttctacaaacagagacatgagaacacttttgaataataatgatgt 1091
Db      61  gtggaggttaccttctacaaacagagacatgagaacacttttgaataataatgatgt 120
Qy      1092  aagacatlaaattcctcgaacactcctctcagatgcaaaatcacttgcttcagggctct 1151
Db      121  aagacatlaaattcctcgaacactcctctcagatgcaaaatcacttgcttcagggctct 180
Qy      1152  tgataaagatccaataataaagccttggtgagagaccagatgataaaagaatlaatga 1211
Db      181  tgataaagatccaataataaagccttggtgagagaccagatgataaaagaatlaatga 240
Qy      1212  gacacagttctctcgtgagtaaacctggaagatgatatagataaaagctgttactctc 1271
Db      241  gacacagttctctcgtgagtaaacctggaagatgatatagataaaagctgttactctc 300
Qy      1272  ctcttaaacctcaagtaacatctgagacagatactatctttgtatgaaagatctacag 1331
Db      301  ctcttaaacctcaagtaacatctgagacagatactatctttgtatgaaagatctacag 360
Qy      1332  ctgagactatatacaataacacacctg 1358

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Db 357 ACACAGGAGGAGAGAGTGTCTATGCAAGTTCATACAGAGCAATCTCGAA 416  
Qy 568 aaagatgaagtgacacacttcaactgaagcagag---tataaagaacactagaca 624  
Db 417 AAGAAGAGAGGAGAGCAATATTCGCGAGCGAATGTTCTGTGAAGAATGAGCA 476  
Qy 625 tcccttttaacatcccttgaatataatcccttcagacaagaacggttggtttgat 684  
Db 477 CCTTTTCTGCTGGGCTTCACTTCTTTCCAGACTGCTGACAAATTTGACTTTCT 536  
Qy 685 ggaataatgttaaggggagcgtgttccatcttgcagagagcggtgtctctga 744  
Db 537 AGACTACATTAATGGTGGAGAGTGTTCACCATCTCCAGAGGAGCGTCTCTGGA 596  
Qy 745 gaacgcagacgcttctatagtgacagaattgtctcgttggactatcatcgg 804  
Db 597 ACCAGGGCTGCTCTTCTATGCTGTGAATATGCAAGTCTGGCTTACCTGATTCAC 656  
Qy 805 aaagattgtacacgtatcactgaagttgagaatcctaagctggacaagaatggc 864  
Db 657 GAACATCGTTTATAGAGACTTAAACAGAGATATTTTGTAGATTTCACAGGACAT 716  
Qy 865 aaaaattacagaatttgacatttgcaagaaggatcacagatgacacacatgagac 924  
Db 717 TGTCTTACTGACTTCGACTCTGCAAGAGAAACATGAAACACAGACACATCCAC 776  
Qy 925 atctgtgacactcagaatatctgcacacagagtgtagaagaatagactatggc 984  
Db 777 CTCTGTGGACGCGGAGATATCTGACCTGAGGTGCTTCAATAGCACCTTATGACAG 836  
Qy 985 agcagtagacgtgtgggagcctaggggttgatgataagaatgagtggtggagttacc 1044  
Db 837 GACTGTGAGCTGTGTGCTGTGGAGCTGTCTGTATGAGATGCTGTATGGCTGCGGCC 896  
Qy 1045 ttctcaaacacagagccatgagaaacttttgaatataatgaagaatataat 1104  
Db 897 TTTTATAGCCCAACACAGCTGAATGACGACAAACATTTGACAAACCTCTCAGCT 956  
Qy 1105 tccctgaacactctctcagatgaataatcattgcttccagagcctctgataaagatcc 1164  
Db 957 GAACCAATATTACAAATTCGCGAAGACACCTCTGTGAGGCGCTCTGCGAGAGACG 1016  
Qy 1165 aaataaacgcttggtagagaccagatgcatgacaagaatataagagacagacttct 1224  
Db 1017 GACAAGGCGGT---CGGGGCCAAGATGATTCATGAGATTAAGAGTCACTTCTT 1073  
Qy 1225 ctctggagtaaacctggcagaatgatacatgataaaaaagcttgcctctttaaactca 1284  
Db 1074 CTCTTAATTAACCTGGATGATCTCATTAATTAAGAAATTAATCTCCCTTTAACCCAA 1133  
Qy 1285 agtaacatctgagacagatagatatttggatgaagaatttacaagctcagactatac 1344  
Db 1134 TGTAGTGGGCCCAAGACCTAAGGCACTTGAAGCCGAGTTTACGGAAGACCTGTCC 1193  
Qy 1345 aa 1346  
Db 1194 CA 1195

RESULT 8  
US-09-111-444-6  
Sequence 6, Application US/09111444  
Patent No. 6045792  
GENERAL INFORMATION:  
APPLICANT: Au-Young, Janice  
APPLICANT: Guebler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto

STATE: CA  
COUNTRY: U. S.  
ZIP: 94304  
COMPUTER READABLE FORM:  
MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FASTSEQ Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/111,444  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/712,709  
FILING DATE:  
ATTORNEY/AGENT INFORMATION:  
NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166  
INFORMATION FOR SEQ ID NO: 6:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2311 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:  
LIBRARY:  
CLONE: Consensus  
US-09-111-444-6

Query Match 16.6%; Score 257.2; DB 3; Length 2311;  
Best Local Similarity 56.9%; Pred. No. 1.9e-64;  
Matches 513; Conservative 0; Mismatches 383; Indels 6; Gaps 2;  
Qy 448 tgatttgaactatgtgaactactagtaaaagcacttltggaaagtattgtgtcg 507  
Db 297 TGACTTTGCTCTTGAAGATGATCGGAAGGCGAGTTTGGAAAGTTCTTCTAGCAAG 356  
Qy 508 agagaagcgaagtggaaaactactatgcatgagaattcttgaagaagaatcataatgc 567  
Db 357 ACACAGGCGAGAGAAAGTGTCTATGACAGTCAAAAGTTTACAGAGAAACAAATCTGAA 416  
Qy 568 aaagatgaagtgacacactctactgaagaagcagag---tataaagaacactagaca 624  
Db 417 AAGAAGAGGAGAGAGCAATATTATGTCGAGCGAATGTTCTGTGAAGAATGTGAGCA 476  
Qy 625 tcccttttaacatcccttgaataatcttccagacaagaacgcttggtttggat 684  
Db 477 CCTTTCTGCTGGGCTTCACTTCTTTTCCAGACTGCTGCAAAATTTGACTTGTCT 536  
Qy 685 ggaataatgttaatggggcagagctgttltccatcttgcagagagcggtgtctctga 744  
Db 537 AGACTACATTAATGGTGGAGAGTGTCTTACCATCTCCAGAGGAGAACCTCTCTCGA 596  
Qy 745 gaacgcagacgcttctatagtgacagaattgtctcgttggactatcatcagctcg 804  
Db 597 ACCAGGGCTGCTTCTTATGCTGTGAAATAGCCAGTCTTGGGCTACCTGCACTTCACT 656  
Qy 805 aaagattgtacgctgaactcaagtltgagaatcctaagctgcgacaagaatggc 864  
Db 657 GAACATCGTTTATAGAGCTTAAACAGAGATATTTTGTAGATTTCACAGGACAT 716  
Qy 865 aaaaattacagaatttgacatttgcaagaaggatcacagatgacgacacatgaagac 924  
Db 717 TGTCTTACTGACTTCGAGCTGCAAGAGAAACATTAACACACACACACATTCAC 776  
Qy 925 atctgtgacactcagaatatctgcgacacagagtgtagaagaatagactatggc 984  
Db 777 CTCTGTGGACGCGGAGATCTGCACTTGAAGTGTCTTCAATAGCACGCTTATGACAG 836

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OY 985 accagtagactgtgaggccctaggggttgcataatgaatgagatgtgtggagggttacc 1044
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 837 GACCTGTGACACTGTGTGTGCTGGAGCTGTCTTGTATGATGCTGTATGCTGTGCGCC 896
OY 1045 ttctacaaccagagaccatgagaaacttttgaataataataatgaagaacatlaatt 1104
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 897 TTTTATATAGCCGAACACAGCTGAAATGTACGACAAACATTCGAAACACCTCTCCAGCT 956
OY 1105 tccctgaacactctctcagatgacaaatcattcgtcttcaagggtcttgaataagatcc 1164
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 957 GAACCAATATATTACAAATTCGCAAGACACCTCTGAGAGCTCTCTCAAGAGACAG 1016
OY 1165 aaataaagccttgtggaagccagatgacaaagaataatgaagacacagtttctt 1224
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1017 GACAAAGCGGCT--CGGGGCCAAGAGTACTTTCATGAGATTAAGATGCTCTTCTT 1073
OY 1225 ctctgagtaaacctgcaagatglatatgataaaagcttgaccctctttaaactca 1284
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1074 CTCCTTAATTAACCTGGATGATCATTAATTAAGAAAGATTACTCCCTTTTAACCCAAA 1133
OY 1285 agtaacatctgagacagatactagatatttgaatgaagaattacagctcagaactaac 1344
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1134 TGTGAGTGGGCCCAAGACACTACGGCAGCTTGTGACCCCGAGTTTACCGAAGACCTGTCC 1193
OY 1345 aa 1346
DB 1194 CA 1195

```

RESULT 9

US-09-541-228-6  
Sequence 6, Application US/09541228  
Patent No. 6232077

GENERAL INFORMATION:

APPLICANT: Au-Young, Janice  
APPLICANT: Gugler, Karl J.  
APPLICANT: Hawkins, Phillip R.  
TITLE OF INVENTION: NOVEL HUMAN PROTEIN KINASES  
NUMBER OF SEQUENCES: 9  
CORRESPONDENCE ADDRESS:  
ADDRESS: Incyte Pharmaceuticals, Inc.  
STREET: 3174 Porter Drive  
CITY: Palo Alto  
STATE: CA  
COUNTRY: U.S.  
ZIP: 94304

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: DOS  
SOFTWARE: FastSeq Version 1.5  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/541.228  
FILING DATE:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: 08/712.709  
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Billings, Lucy J  
REGISTRATION NUMBER: 36,749  
REFERENCE/DOCKET NUMBER: PF-0118 US  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: 415-855-0555  
TELEFAX: 415-845-4166

INFORMATION FOR SEQ ID NO: 6:

SEQUENCE CHARACTERISTICS:  
LENGTH: 2311 base pairs  
TYPE: nucleic acid  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: cDNA  
IMMEDIATE SOURCE:

LIBRARY:  
CLONE: Consensus  
US-09-541-228-6

Query Match 16.6%; Score 257.2; DB 4; Length 2311;  
Best local similarity 56.9%; Pred. No. 1.9e-64;  
Matches 513; Conservative 0; Mismatches 383; Indels 6; Gaps 2;

```

OY 448 tgatttgaccttggaaactactagtaaaagcacttgggaaagtatttggttg 507
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 297 TGACTTTCACCTCTTGAAAGTATGCGAAAGGCGACTTTGGAAAGGCTCTTGAGCAAG 356
OY 508 agagaaggaagatggaataactatgctatgagatctcgaagaagaagtcattatgc 567
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 357 ACACAAAGAGGAAGAGTGTCTTATGCACTCAAGATTTTACGAAGAAACCAATCTGAA 416
OY 568 aaagatgagatgycacacactcaactgaagcagag--tataaagaacactagaca 624
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 417 AAAGAAAGAGGAAGACATATTATGCGAGGGAATGTTGTTGAAGATGTGAAGCA 476
OY 625 tccctttaaataccttgaatatccttcacagacaaagacggttggtttggat 684
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 477 CCTTTCTGTTGGGCTTCACTTCTTCCAGACTGCTGACAAATGTACTTGTCTCT 536
OY 685 ggaataatgtaatgggggagcagctgttlttcaatttgtcgaagagcggtgttcttga 744
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 537 AGACTACATTAATGTGAGAGCTGTCTTACACATTCACAGGAAAGCGTCTTCTGGA 596
OY 745 ggaacgacacgcttctatggtgcagaatgtctcctccttggaactctaatcccg 804
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 597 ACCACGGGCTGTTCTTATGCTGTGTAATAGCAAGTGGCTTGGCTTACTGATTCAC 656
OY 805 aaagatgtgtacccgtgacatcagtttgaagaatcctgaatcctgacaaagatgycacat 864
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 657 GAACATCGTTTATAGAGACTTAAACACAGATATTATTGCTAGATTACAGGACACAT 716
OY 865 aaaaatcagaatcttgagacttgcagaagaagagatcagaatgcagccacatgaagac 924
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 717 TGTCTTACTGACTTGTGAGCTGTGCAAGAGAAATGGAACCAACAGCAACATCTCAC 776
OY 925 attctgtgacactcagaatatactgcacagaagtgtagaagaataagataagcagcg 984
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 777 CTTCGTGTGACGCGGAGTATCTGACACTGAGGTGCTTCAATACCACTTTATGACAG 836
OY 985 accagtagactgtgaggcctaggggttgcataatgaatgagatgtgtggagggttacc 1044
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 837 GACTGTGACACTGTGTGCTGCGAGCTGTCTTGTATGAGATGCTGTATGCGCTGCGCC 896
OY 1045 ttctacaaccagagaccatgagaaacttttgaataataataatgaagaacatlaatt 1104
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 897 TTTTATATAGCCGAACACAGCTGAAATGTACCAACATTCGAAACACCTCTCCAGCT 956
OY 1105 tccctgaacactctctcagatgacaaatcattcgtcttcaagggtcttgaataagatcc 1164
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 957 GAACCAATATATTACAAATTCGCAAGACACCTCTGAGAGCTCTCTCAAGAGACAG 1016
OY 1165 aaataaagccttgtggaagccagatgacaaagaataatgaagacacagtttctt 1224
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1017 GACAAAGCGGCT--CGGGGCCAAGAGTACTTTCATGAGATTAAGATGCTCTTCTT 1073
OY 1225 ctctgagtaaacctgcaagatglatatgataaaagcttgaccctctttaaactca 1284
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1074 CTCCTTAATTAACCTGGATGATCATTAATTAAGAAAGATTACTCCCTTTTAACCCAAA 1133
OY 1285 agtaacatctgagacagatactagatatttgaatgaagaattacagctcagaactaac 1344
    ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| ||| |||
DB 1134 TGTGAGTGGGCCCAAGACACTACGGCAGCTTGTGACCCCGAGTTTACCGAAGACCTGTCC 1193
OY 1345 aa 1346
DB 1194 CA 1195

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```

:      FILING DATE: 09-JUL-1993
:      PRIOR APPLICATION DATA:
:      APPLICATION NUMBER: 07/852,852
:      FILING DATE: 16-MAR-1992
:      ATTORNEY/AGENT INFORMATION:
:      NAME: Paul K. Legaard
:      REGISTRATION NUMBER: 38,534
:      REFERENCE/DOCKET NUMBER: ISIS-2943
:      TELECOMMUNICATION INFORMATION:
:      TELEPHONE: (215) 568-3100
:      TELEFAX: (215) 568-3439
:      INFORMATION FOR SEQ ID NO: 48:
:      SEQUENCE CHARACTERISTICS:
:      LENGTH: 2244
:      TYPE: nucleic acid
:      STRANDEDNESS: single
:      TOPOLOGY: linear
:
:      US-09-094-714A-48

```

Db 1587 aaggaatagctacaggaacctgaagctagatacactcgtttagacaaagatgacata 1646  
Qy 864 taaaatcacagattctgactctgcaagaaggaacacagatgacacacataaga 923  
Db 1647 tcaagatcggaattcttgaaatgcaagaagacatgtaagaatgcaagaacata 1706  
Qy 924 catctctggaactccagaatatactgcaacacagagtgatagaagaataatgacatgacc 983  
Db 1707 cctctctggaactccagactatatacgcacagagatctctggttcagaatacacaac 1766  
Qy 984 gagcagtaagctggtgagcctagggctggtctgctatgaataagatggtggaagttac 1043  
Db 1767 actctgtagactggtggtcctctcggtctccttattgaaatgcatggtgacagtcgc 1826  
Qy 1044 ctcttcacacagcagacatgagaacattttgaatataatgaagaagaacattaaat 1103  
Db 1827 ctcttcacagcagcagatgagagagagctcttcacacacacagacacacacacacac 1886  
Qy 1104 tctctgaacactctctcagatgacaaatcaltgcttcaaggtccttgataaagatc 1163  
Db 1887 accacagctggtcgtgaggaaggaaggaagacactctggtgaagcctctgctgaggaac 1946  
Qy 1164 caaataaagcctctggtgaggaagcagatgacgaagaataatgagacacagttct 1223  
Db 1947 ctgagagaagcgtggtggtgag-----ggagacacacgcagcacccttct 1994  
Qy 1224 tctctgagtaactgcaagatgataatgaataaagcttgcactcctttaaagctc 1283  
Db 1995 tctggaagatcaactggtgaggaactggaaggaagagatgacacacgcttccgagcga 2054  
Qy 1284 aagtaacactgagacagatactagatatttgatgaagaat 1326  
Db 2055 aagtgaaatcacacttgactgcaagatcttgacaaagaat 2097

## RESULT 13

US-08-313-274-1  
Sequence 1, Application US/08313274  
Patent No. 5595902

## GENERAL INFORMATION:

APPLICANT: BIDEN, Trevor J.  
APPLICANT: SELBIE, Lisa  
TITLE OF INVENTION: Protein kinase C (Iota)  
NUMBER OF SEQUENCES: 5  
CORRESPONDENCE ADDRESS:  
ADDRESSEE: Rothwell, Figg Ernst & Kurz  
STREET: Suite 701-E, 555 Thirteenth St., N.W  
CITY: Washington  
STATE: D. C.  
COUNTRY: U. S. A.  
ZIP: 20004

## COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk  
COMPUTER: IBM PC compatible  
OPERATING SYSTEM: PC-DOS/MS-DOS  
SOFTWARE: PatentIn Release #1.0, Version #1.30  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/08/313,274  
FILING DATE: 02-DEC-1994

## CLASSIFICATION:

## PRIOR APPLICATION DATA:

APPLICATION NUMBER: PCT/AU92/00052  
FILING DATE: 04-FEB-1994  
ATTORNEY/AGENT INFORMATION:  
NAME: WALKER, Barbara W.  
REGISTRATION NUMBER: 35,400  
REFERENCE/DOCKET NUMBER: 1871-111A  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (202)783-6040  
TELEFAX: (202)783-6031  
INFORMATION FOR SEQ ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 2196 base pairs

TYPE: nucleic acid  
STRANDEDNESS: both  
TOPOLOGY: linear  
MOLECULE TYPE: CDNA  
HYPOTHETICAL: NO  
ANTI-SENSE: NO  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 265..2025  
US-08-313-274-1

Query Match 13.3%; Score 205; DB 1; Length 2196;

Best Local Similarity 52.3%; Pred. No. 2,1e-49;

Matches 547; Conservative 0; Mismatches 465; Indels 33; Gaps 3;

Qy 447 atgatttgaacttggaaactactgtaagaagcacttltgggaagatatttgctc 506  
Db 992 AGGATTTTGTATTTGCTCCGGGTATAGGAAGAGATTATGCCAAAGTCTTGCTC 1051  
Qy 507 gagaagaagcagaatggaataataactatgctatgagaattctgaagaagaagtcattatg 566  
Db 1052 GATTAAAAAAGACATCGTATTTATGCAATGAAGTTGTAAGAAAAAGACTTTAATG 1111  
Qy 567 caaagatgaagtgagcacacactctaactgaagcagatataagaagaa---cactagac 623  
Db 1112 ATGATGAGATATTTATTTGGGTACAGACAGAAAGCATGTTTGACAGGATCCAAATC 1171  
Qy 624 atcccttctaacaatccttgaatattccttcagacaaagaacgcttgttcttga 683  
Db 1172 ATCTTTCTGTTGTTGGCTGCAATTCCTTCAGACAGAAACATATTTCTTTGTTA 1231  
Qy 684 tgaataatgttaatggggcagcgttcttcacattgctgaagaagcggtgtctctg 743  
Db 1232 TAGAGTATGTAATGAGAGGAGACTATATGTTTCATATGACGACCAAGAAAACTTCTG 1291  
Qy 744 aggaaccgacacgcttctatgctgagaaattgctctgctgactacatctcgcg 803  
Db 1292 AACGATGCGCAATTTTACTCTGAGAAATCGTACGATTAATTTATCTTCATGAGC 1351  
Qy 804 gaaagattgtacgctgacatcaagcttggagaatcctaagtctggaacaaagatgacaca 863  
Db 1352 GAGGATATTTATGAGATTTGMAACTGACAAATATTAATTAATTAATTAATTAATTA 1411  
Qy 864 taaaatcacagattctgacttgaacttgaagaagaaggaacagatgagacacacaga 923  
Db 1412 TTAACCTCACTGACTCGGCAATGTGTAAGAGAGATTACGCCAGAGATTAACACGCA 1471  
Qy 924 catctctggaactccagaatatactgcaacacagagtgatagaagaataatgactatgacc 983  
Db 1472 CTTTGTGTGTTACTCTTAATTTACATTTGCTGCTGTAATTTTAAGAGAGAAAGATTAG 1531  
Qy 984 gagcagtaagctggtgagcctagggctggtctgctatgaataagatggttggaggtc 1043  
Db 1532 TCAGTCTTACGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1591  
Qy 1044 ctcttcac-----acaagacccctggaaacttctg 1076  
Db 1592 CATTGTATTTGTTGGGAGCTCCGATTAACCTGACAGAACAGAGATTAATCTTCTTC 1651  
Qy 1077 aattaatataatgagaacatataatctcctgcaacactctctcaagatgcaaaatcat 1136  
Db 1652 AAGTTATTTTGGAAAAACAATTCGATACACAGTCTCTGCTGTGTAAGAAAGCTGCAAGTG 1711  
Qy 1137 tgcctcagggctcttgataaagatccaaataaagccttggctggaagacagatgag 1196  
Db 1712 TTCTGAAGATTTTCTTAATTAAGGACCTTAAGAACAGATTTGGGTTCTTCATCTCAAAACG 1771  
Qy 1197 ca---aaagaatataagaacacagtttctctctgaggaactgcaagatgatatg 1253  
Db 1772 GATTCTGATATTTTCAAGGACACCGCTTCTCGGAATGTTGATGAGATGATGATGAGC 1831  
Qy 1254 ataaaaagcttgactcctttaaaccctcaagtaacatctgagacagatactagatatt 1313

Db 1832 AAAAAGAGGTGACTCTCCCTTTAAACCAATATTTCTGGGGAATTTGGTTGGACACT 1891  
QY 1314 ttgataagaattacagctcagactattacaataacaccctgaaataatgatgagg 1373  
Db 1892 TTGATCTCTCAGTTTACTAATGAACCTGTCACGCTCAGTACAGATGACATTTGTGA 1951  
QY 1374 atggtatgactcagcagcagcagcagcagcagcagcagcagcagcagcagcagc 1433  
Db 1952 GGAAGATTGATCAGTCTGAATTTGAAGTTTGAATATCAATCCTTTTGAATGTCGTG 2011  
QY 1434 caatggagcagaataagctctt 1458  
Db 2012 CAGAAGAGTGTGTCGTCGTCATCATT 2036

RESULT 14  
US-09-313-930-1  
; Sequence 1, Application US/09313930  
; Patent No. 6235723  
; GENERAL INFORMATION:  
; APPLICANT: Dean, Nicholas M.  
; TITLE OF INVENTION: Antisense Oligonucleotide Modulation of Human Protein  
; TITLE OF INVENTION: Kinase C-delta Expression  
; FILE REFERENCE: ISPH-0357  
; CURRENT APPLICATION NUMBER: US/09/313, 930  
; CURRENT FILING DATE: 1999-05-18  
; NUMBER OF SEQ ID NOS: 20  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 1  
; LENGTH: 2104  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (59)..(2089)  
; PUBLICATION INFORMATION:  
; AUTHORS: Aris, J. P.  
; AUTHORS: Basta, P. V.  
; AUTHORS: Holmes, W. D.  
; AUTHORS: Ballas, L. M.  
; AUTHORS: Moomaw, C.  
; AUTHORS: Rankl, N. B.  
; AUTHORS: Blobel, G.  
; AUTHORS: Loomis, C. R.  
; AUTHORS: Burns, D. J.  
; TITLE: Molecular and biochemical characterization of a  
; TITLE: recombinant human PKC-delta family member  
; JOURNAL: Biochim. Biophys. Acta  
; VOLUME: 1174  
; ISSUE: 2  
; PAGES: 171-181  
; DATE: 1993-08-19  
; DATABASE ACCESSION NUMBER: L07860  
; DATABASE ENTRY DATE: 1993-11-02  
US-09-313-930-1

Query Match 12.0%; Score 186.4; DB 4; Length 2104;  
Best Local Similarity 54.2%; Pred. No. 4,6e-44;  
Matches 401; Conservative 0; Mismatches 336; Indels 3; Gaps 1;

QY 443 atgaatgatttgcactattgaactaactagtaagcagcacttttgggaagtattttg 502  
Db 1094 atcaacaacttcacttcacaaagctcctgggcaagcagcttcgggaagctgcctt 1153  
QY 503 gtctgagaagaagcagaataactatgctatgaagaattctgaagaagaagcatt 562  
Db 1154 ggaagagctgaagggcagagagagctctgcacatcaaggccctcaagaagagctgctc 1213  
QY 563 attgcaagaagatgaagtggcacacacttaactaactgaagaagagatattaaagaacactaa 622  
Db 1214 cctgacgacgacgagctggagtgacacatgcttgagaagcgggtgtgacacttgccgca 1273

QY 623 c---atcccttttaacatcccttgaatatcccttcacagacaaagaccggttgtttt 679  
Db 1274 gagaatcccttccatcccaactcacttcagacttcacagaccaggaacacacgcttctt 1333  
QY 680 gtatggaataatgtaatggggcagcgtcttttccatttgcgcggaagagcggttc 739  
Db 1334 gtgatgagttcctcaacggggggaacctgaatgaaccacaccaggaagacgctt 1393  
QY 740 tctgagaccgcacagcttctatggtgcagaatgtctctccttgcactacat 799  
Db 1394 gaacttaccgtgcacagtttattatgcgcgtgagataatgtgtgactgcagtttctaac 1453  
QY 800 tccggaagaattgtatccgtatcccaagtgtgagaatctaagtctgcgaagaatgtgc 859  
Db 1454 agcaaggacatcattacagggacccccaacttgaacatgtgtgtgttgaccggtatg 1513  
QY 860 cacataaaatcacagatttgcacttgcagaagaaggatcacagatgcagccacatg 919  
Db 1514 cacatcaagattgcagacttggatgtgtaaaagaacatcttcgggagagccggcc 1573  
QY 920 aagacattctgtgcaactccagaatatctggcacccagaggtgttagaagaataagctat 979  
Db 1574 agaccctctcgccgacccctgactatctgcgccctgaagatcctacagggcctgaag 1633  
QY 980 ggcggagcagtaactgtgtgggctcaggggtgtcatatgaatgaatgatgtggagg 1039  
Db 1634 acattctgtgtgactgtgtgtcttcgggtctctctgaagatgcacttggccag 1693  
QY 1040 ttaccttctacacacagacagacatgaagaacttltgaatlaataatgaagaacat 1099  
Db 1694 tcccccttcacatgtgatgagtgatgaactcttcgagtcacccgtgtggacaagcc 1753  
QY 1100 aaattcctcgaacactcttcagatgcagaatcattgtcttcagggtcctgataaag 1159  
Db 1754 cattaccocccgtgatccacaaggagctccaagacatccttgagaagctcttgaag 1813  
QY 1160 gatccaataaagccttg 1179  
Db 1814 gaaccaaccaagagctgg 1833

RESULT 15  
US-09-467-082-3  
; Sequence 3, Application US/09467082  
; GENERAL INFORMATION:  
; APPLICANT: Brett P. Monia  
; APPLICANT: Lex M. Cowsett  
; TITLE OF INVENTION: ANTISENSE MODULATION OF PKA CATALYTIC SUBUNIT C-ALPHA EXP  
; FILE REFERENCE: RTS-0088  
; CURRENT APPLICATION NUMBER: US/09/467,082  
; CURRENT FILING DATE: 1999-12-17  
; NUMBER OF SEQ ID NOS: 49  
; SEQ ID NO 3  
; LENGTH: 2549  
; TYPE: DNA  
; ORGANISM: Homo sapiens  
; FEATURE:  
; NAME/KEY: CDS  
; LOCATION: (81)..(1136)  
; NAME/KEY: unsure  
; LOCATION: 6  
; OTHER INFORMATION: unknown  
US-09-467-082-3

Query Match 11.8%; Score 182; DB 4; Length 2549;  
Best Local Similarity 51.1%; Pred. No. 9,5e-43;  
Matches 459; Conservative 0; Mismatches 430; Indels 9; Gaps 1;

QY 423 cccatcataaagaagaacatgaatgatttgcactattgaactactagtaagaagca 482  
Db 181 ccgtcagaacacagccacacttgatcagtttgaagaatcaagaccctcggaagggct 240

